

Figure 1A

The diagram illustrates a diagnostic tool system 50. At the center is a cloud 56 representing a network. Connected to this network are a SERVER 52 and multiple TEACHER STATIONS (1, 2, ..., N). The SERVER 52 is further connected to STORAGE 64. A detailed view of a TEACHER STATION N shows it contains a CPU 72, a DIAGNOSTIC TOOL 74, and is connected to an INPUT 76, STORAGE 74, and DISPLAY 78. The STUDENT 1 is also connected to the cloud 56.

FIGURE 1G

104240" T892T650

58

52

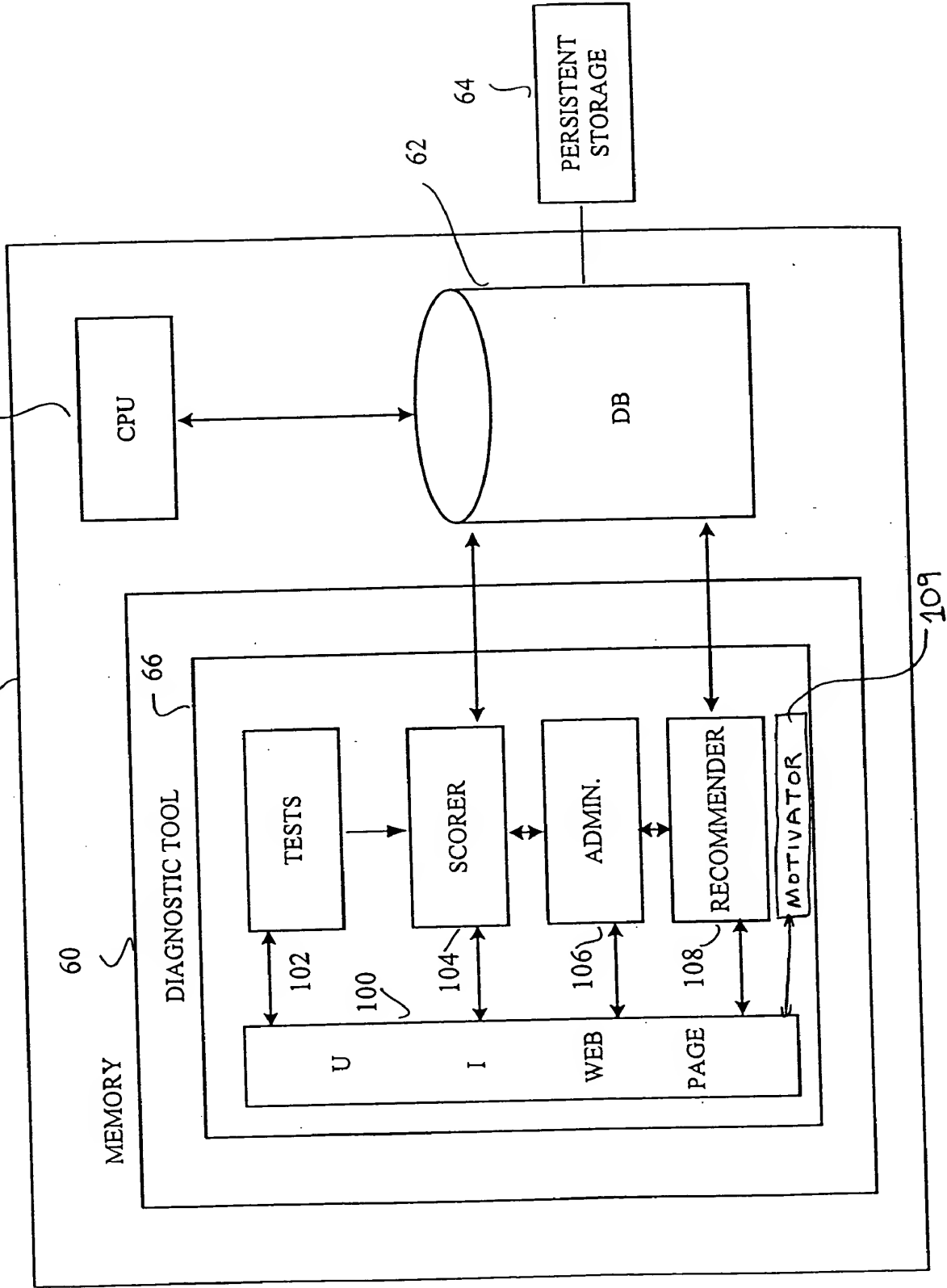


Figure 2

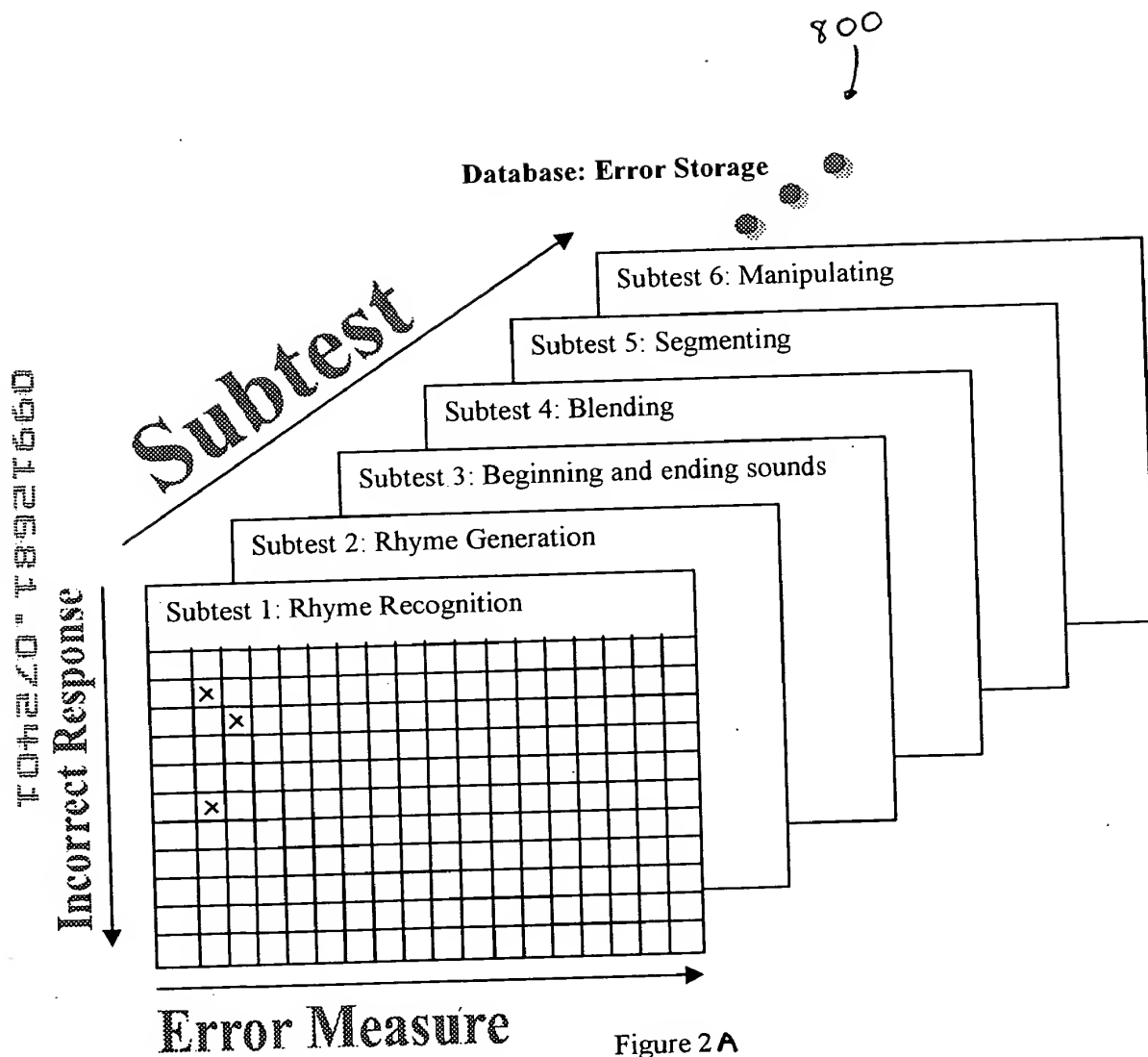
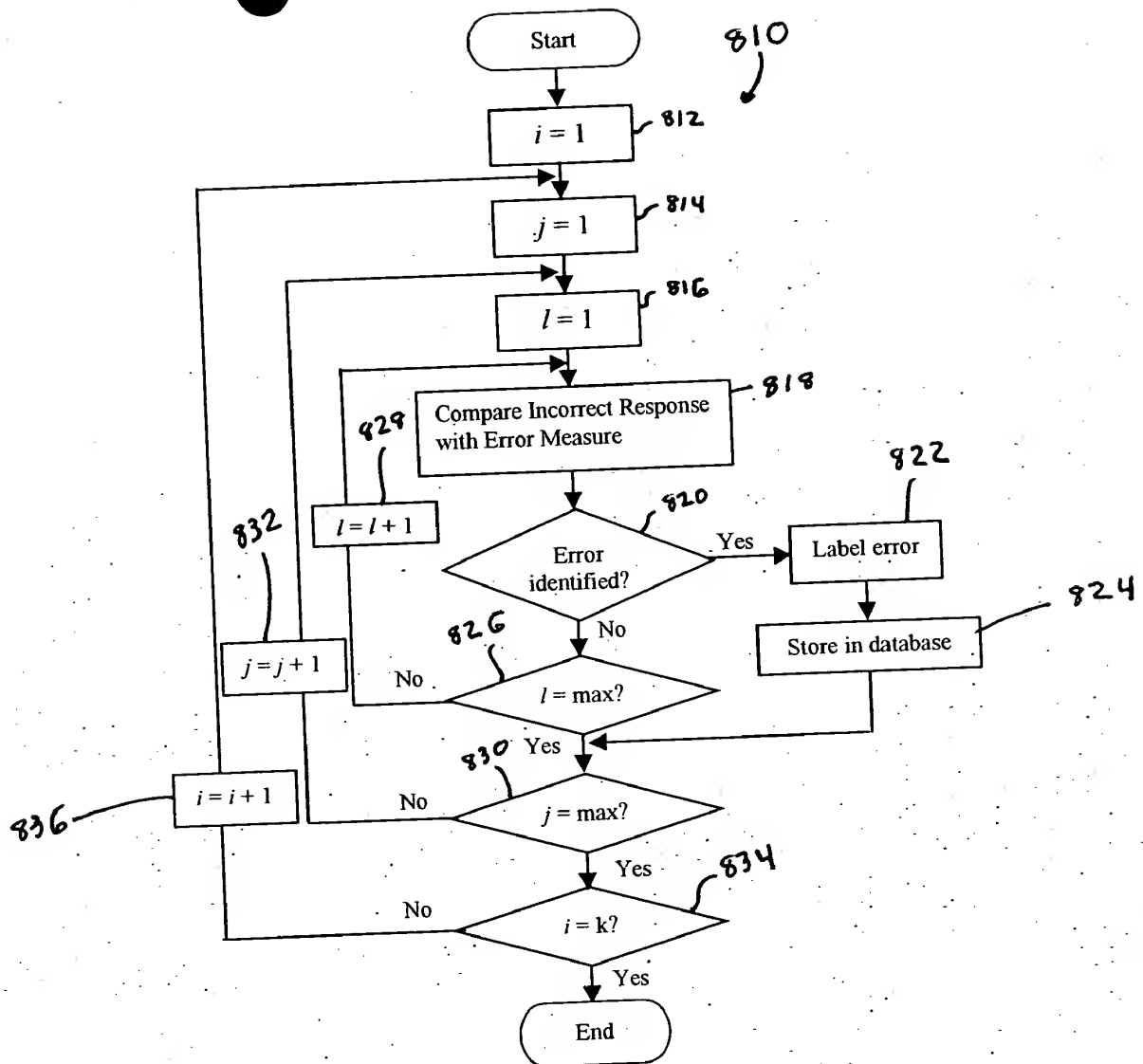


Figure 2A

09412681 07401
104220 13921660



(ST)_i: Subtest; $i = 1 \dots k$

(IR)_{ij}: Incorrect Response; $ij = 1.1, 1.2, \dots, 1.\text{max.}, \dots, k.1, k.2, \dots, k.\text{max.}$ ($j = 1 \dots \text{max.}$)

(EM)_{il}: Error Measure; $il = 1.1, 1.2, \dots, 1.\text{max.}, \dots, k.1, k.2, \dots, k.\text{max.}$ ($l = 1 \dots \text{max.}$
Note: max. for l is different from max. for j .)

Figure 2B

09912681-072401
FOI#220-18921650

IF-THEN Rule Bases

Subtest	Error Measure						
	(1)	(2)	(3)	(4)	...		
1. Rhyme Recognition	(1)	(2)	(3)	(4)	...		η_1
2. Rhyme Generation	(1)	(2)	(3)	(4)	...		η_2
3. Beginning and Ending Sounds	(1)	(2)	(3)	(4)	...		η_3
4. Blending	(1)	(2)	(3)	(4)	...		η_4
5. Segmenting	(1)	(2)	(3)	(4)	...		η_5
6. Manipulating	(1)	(2)	(3)	(4)	...		η_6
7. Recalling in Sequential Order	(1)	(2)	(3)	(4)	...		η_7
8. Rapid Naming	(1)	(2)	(3)	(4)	...		η_8
9. Letter Names and Sound	(1)	(2)	(3)	(4)	...		η_9
10. Decoding	(1)	(2)	(3)	(4)	...		η_{10}
11. Fluent Reading	(1)	(2)	(3)	(4)	...		η_{11}

FIGURE 2C

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Subtest	Error Measure ID	Error Measure
3. Beginning and Ending Sounds	2	Do not recognize /f/ when it is at the end following an /i/ sound
4. Blending	3	Can not blend when /f/ is at the end following an /e/ sound
5. Segmenting	4	Do not count /f/ when it is at the end following an /Δ/ sound
6. Manipulating	4	Can not replace /f/ with /v/ when it is at the end following an /e/ sound
7. Recalling in Sequential Order	3	Do not recall /f/ when it is at the end following another consonant.
9. Letter Names and Sound	4	Can not recognize /f/ sound when it is isolated
10. Decoding	2	Cannot recognize the nonsense word when the word ends with a /f/ sound which follows another consonant

FIGURE 2D

DIAGNOSTIC TOOL

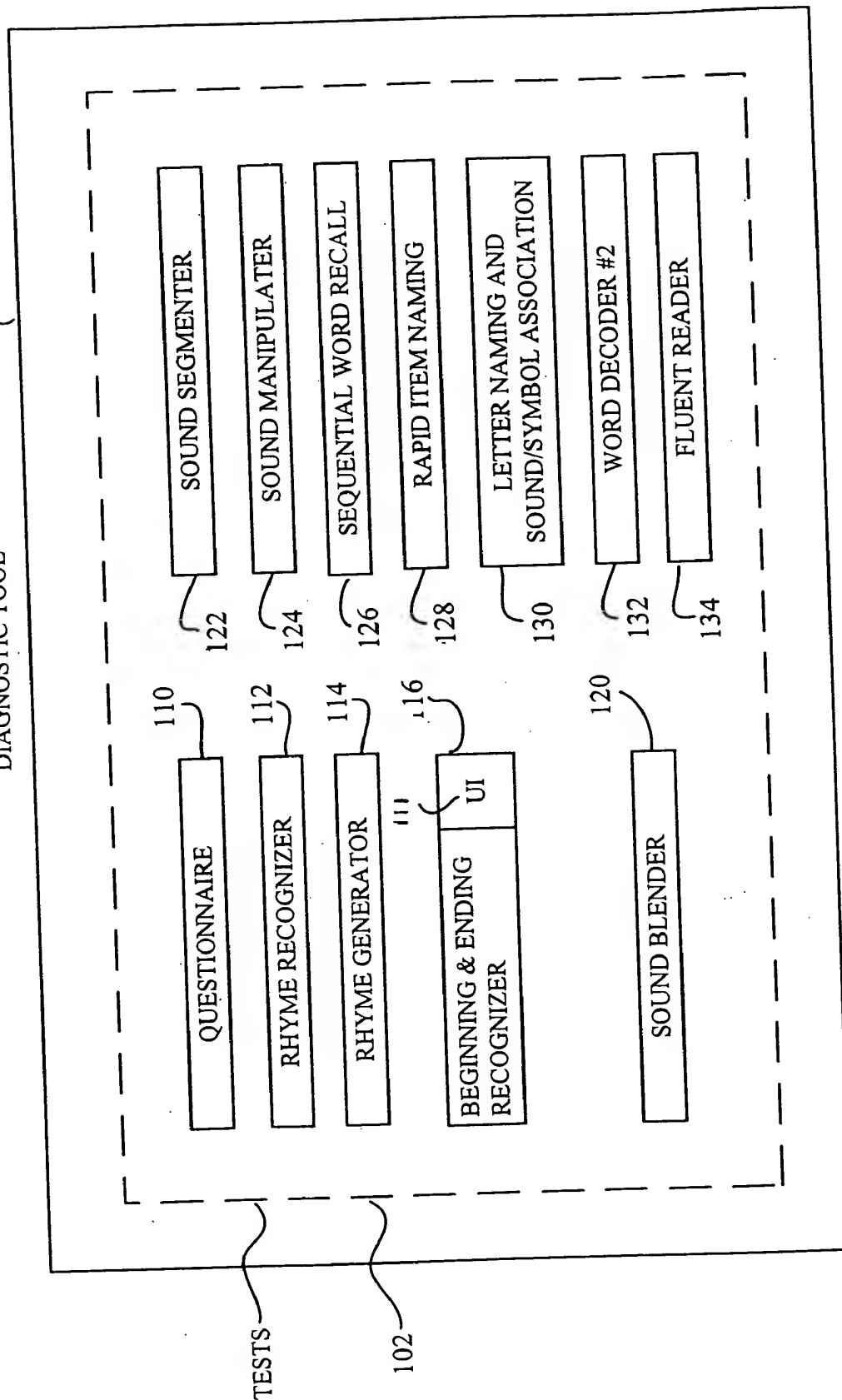


Figure 3

FIG. 4

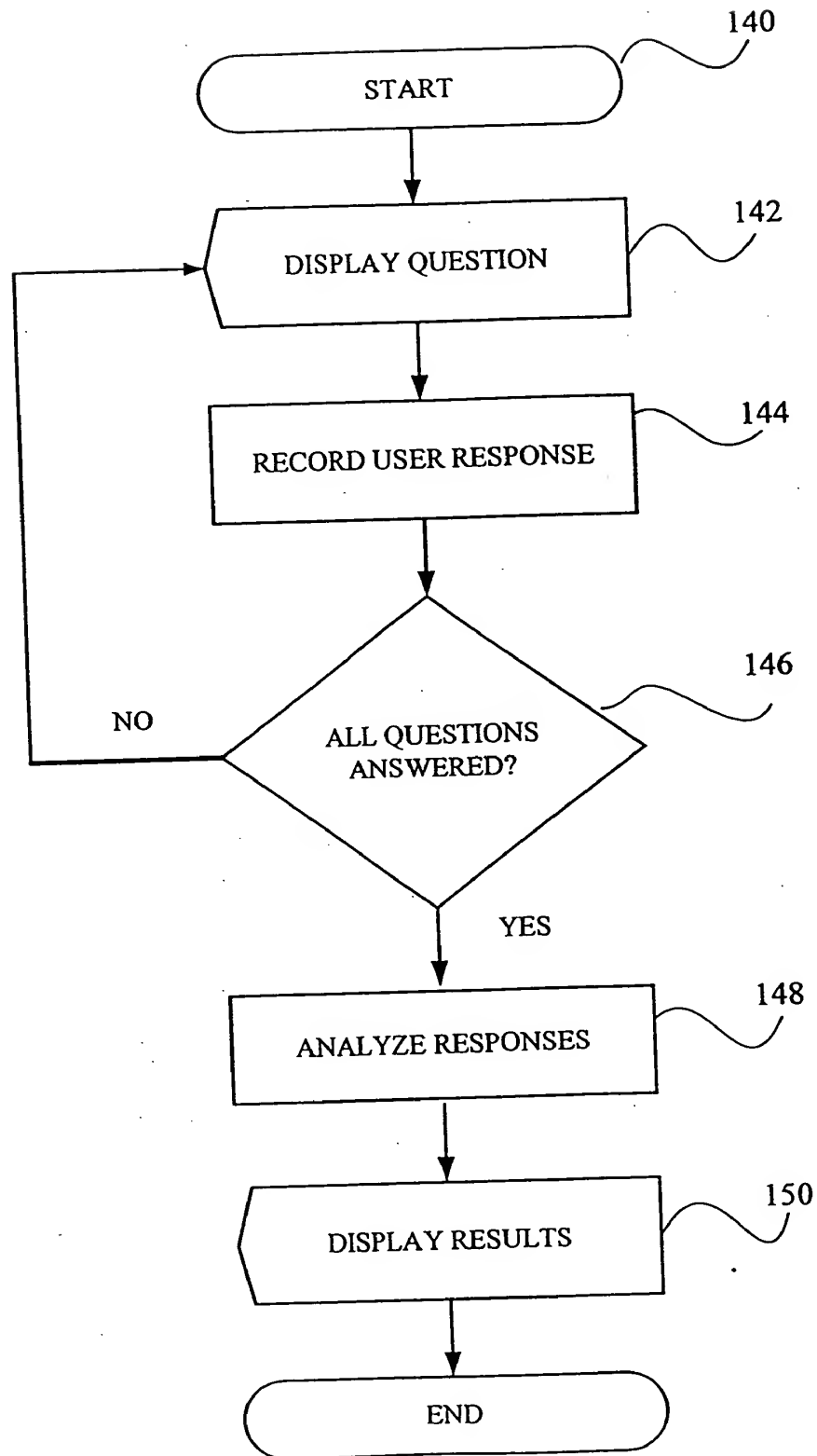


Figure 4

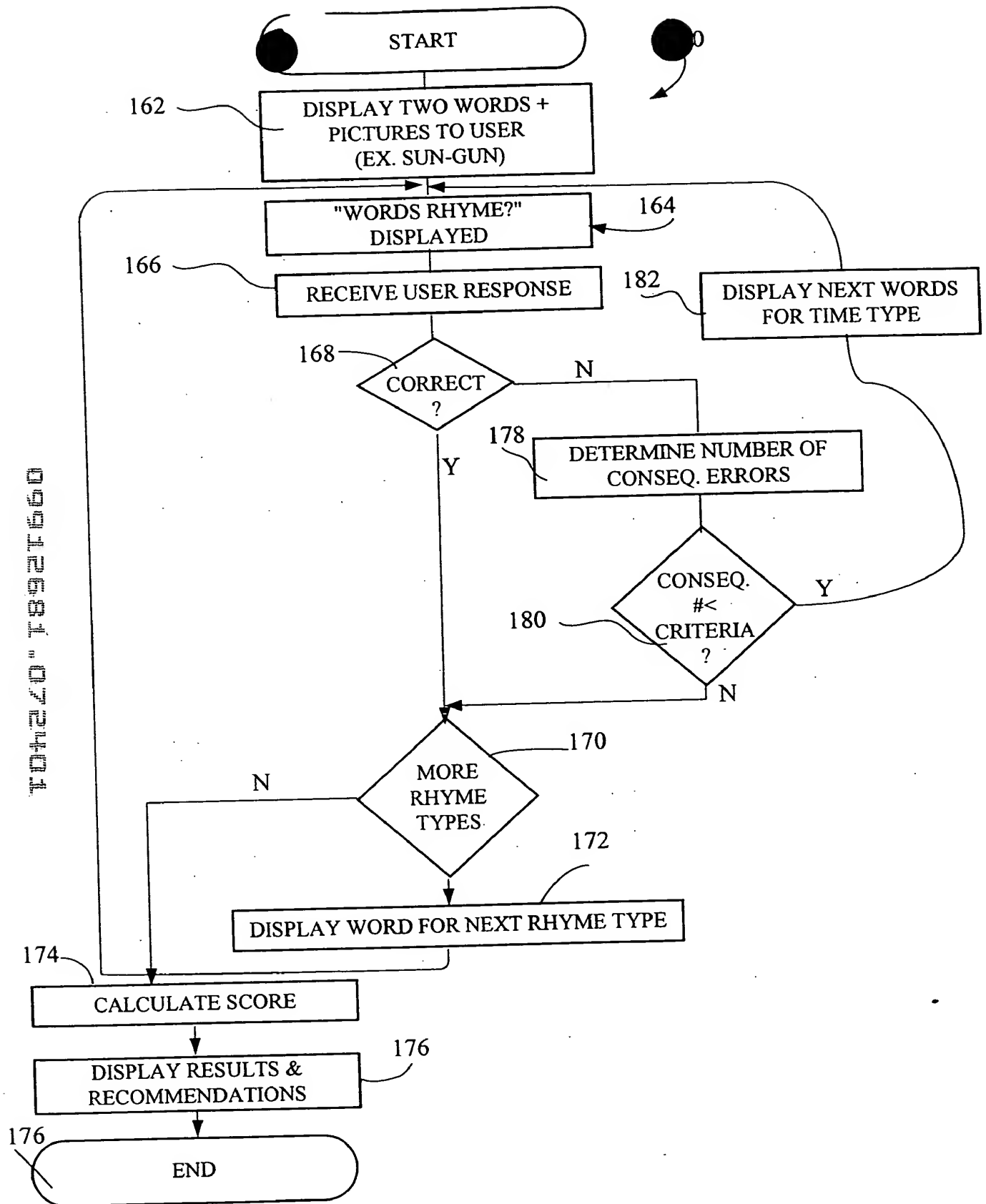


Figure 5

104220" T8921650

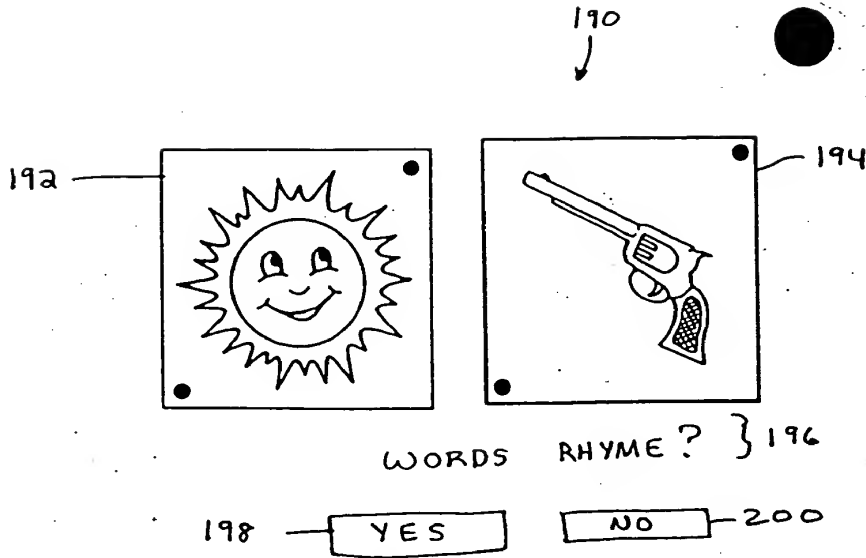


Figure 6

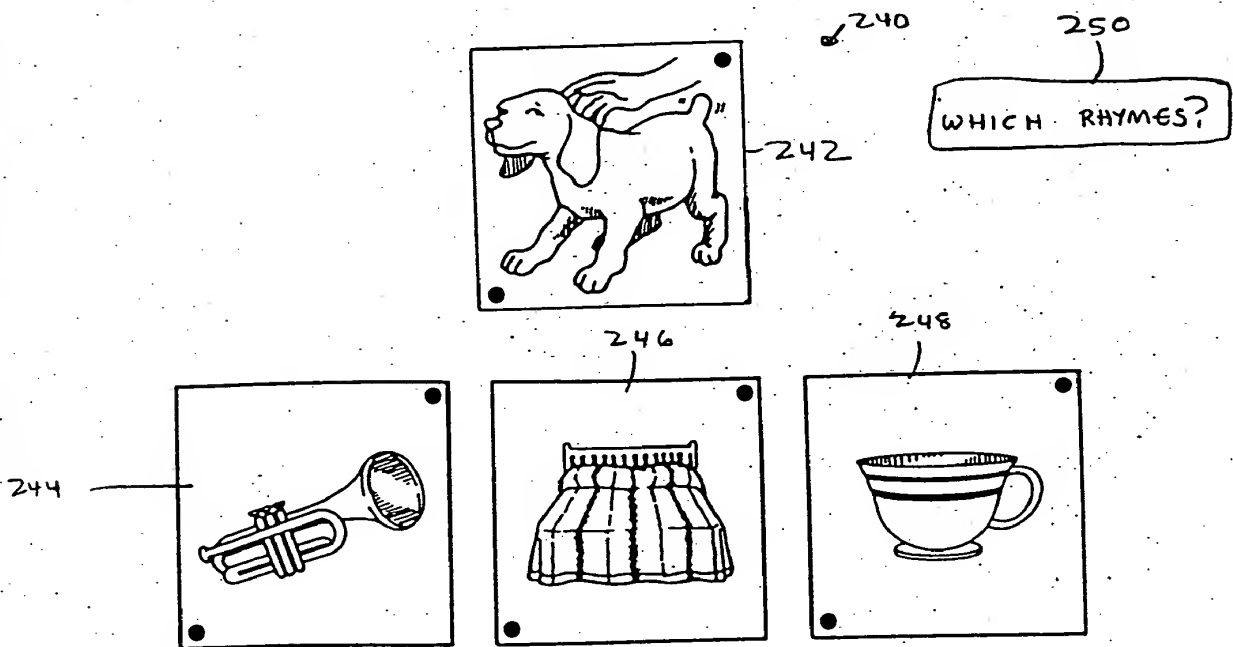


Figure 8

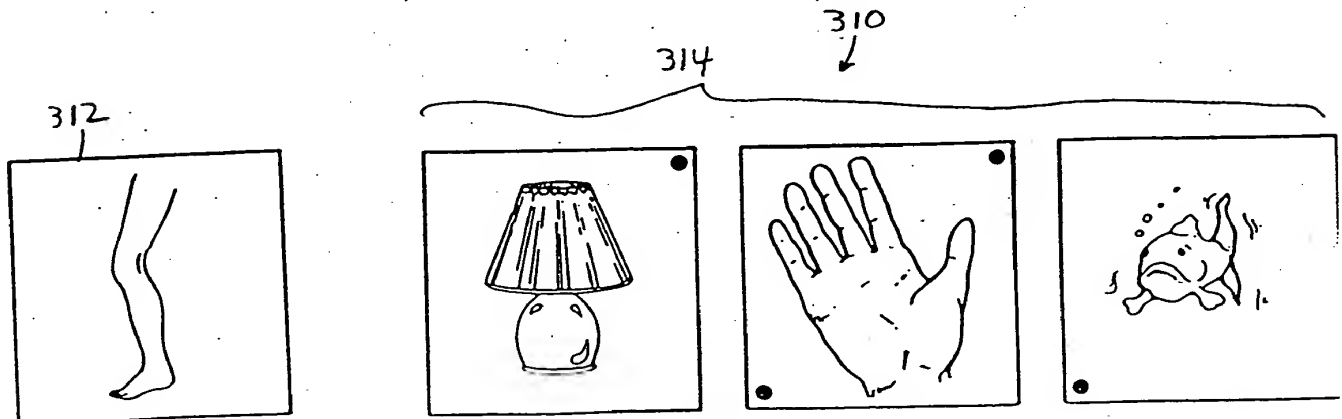


FIGURE 10

104220" 18921660

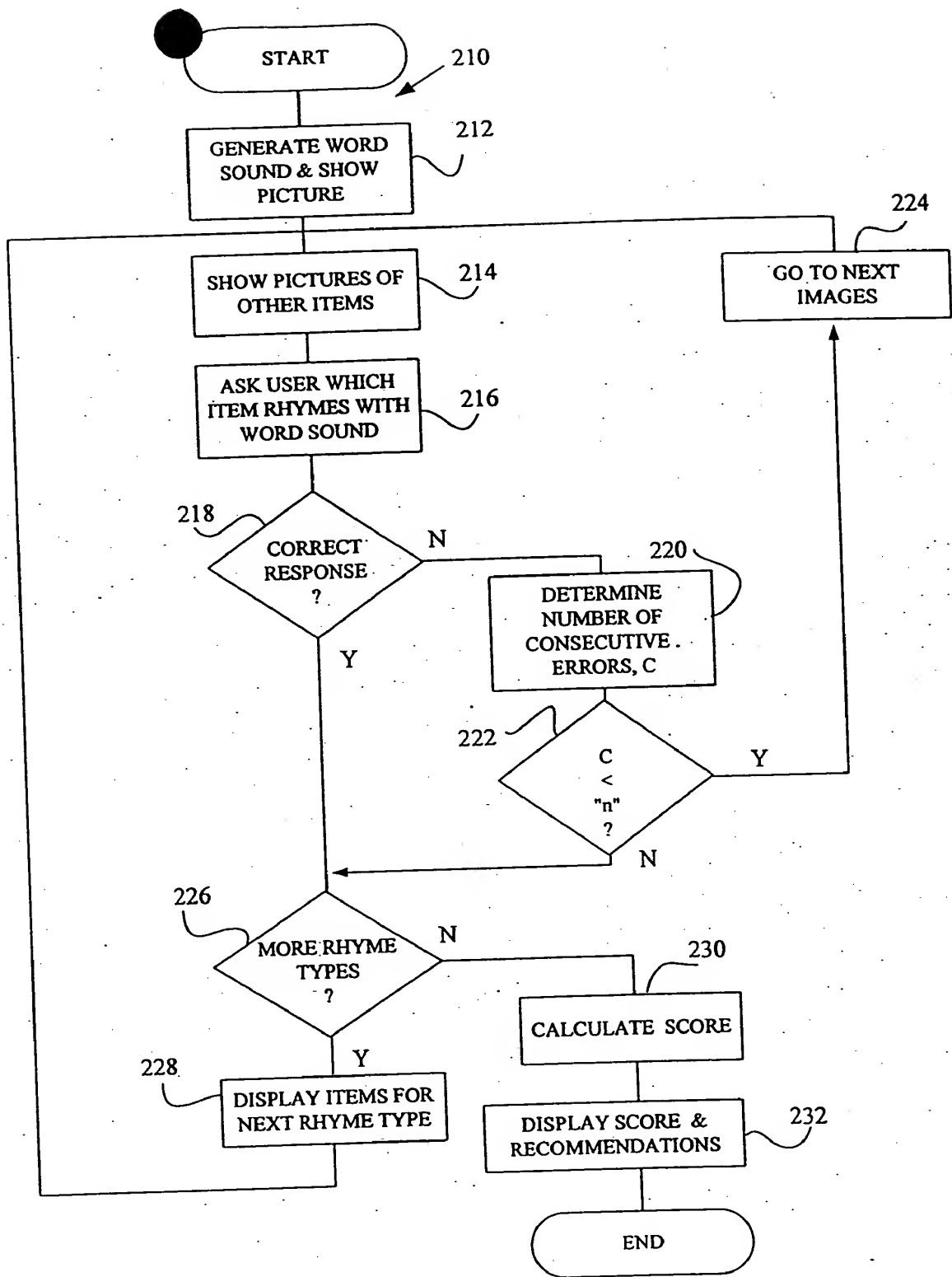


Figure 7

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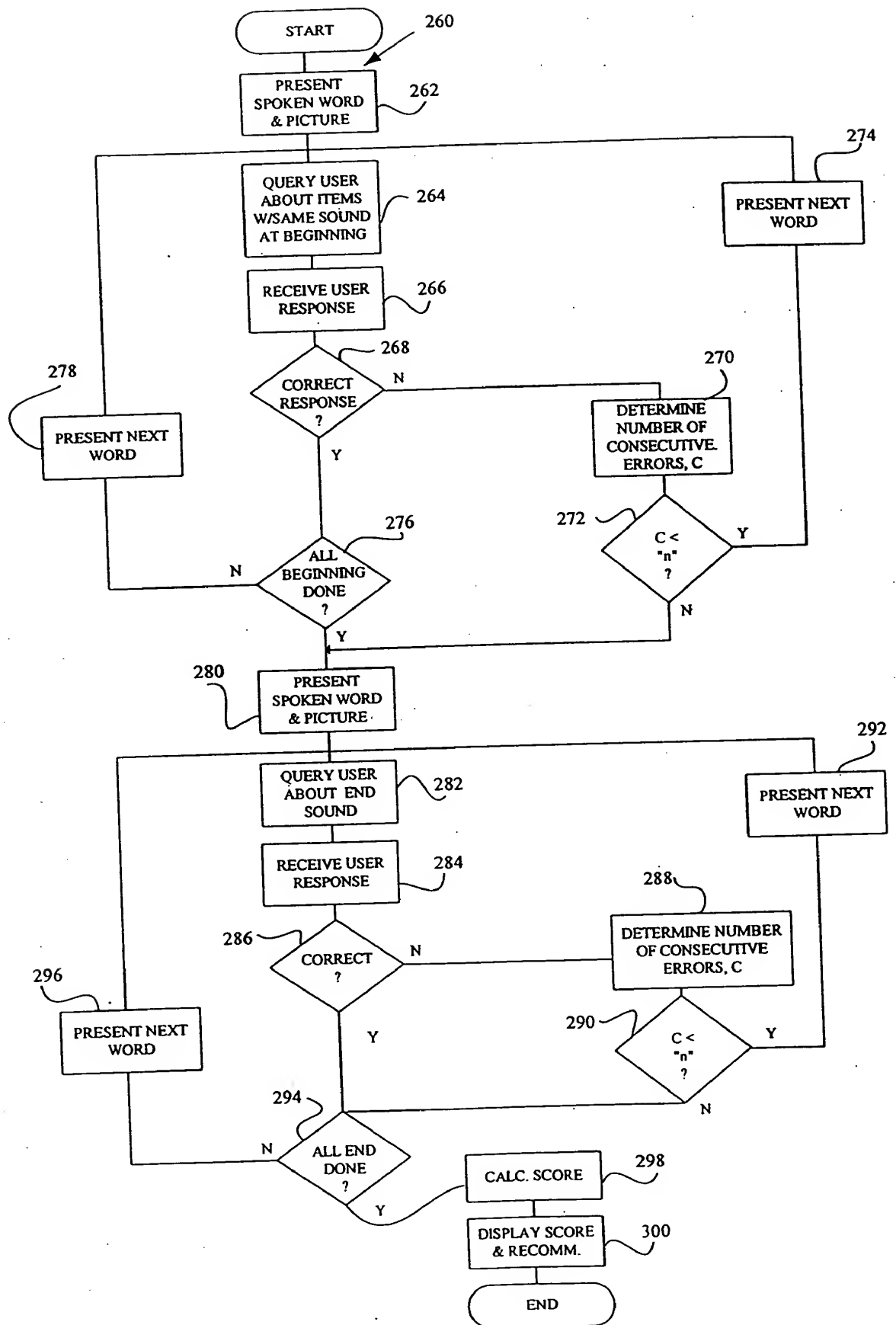


Figure 9

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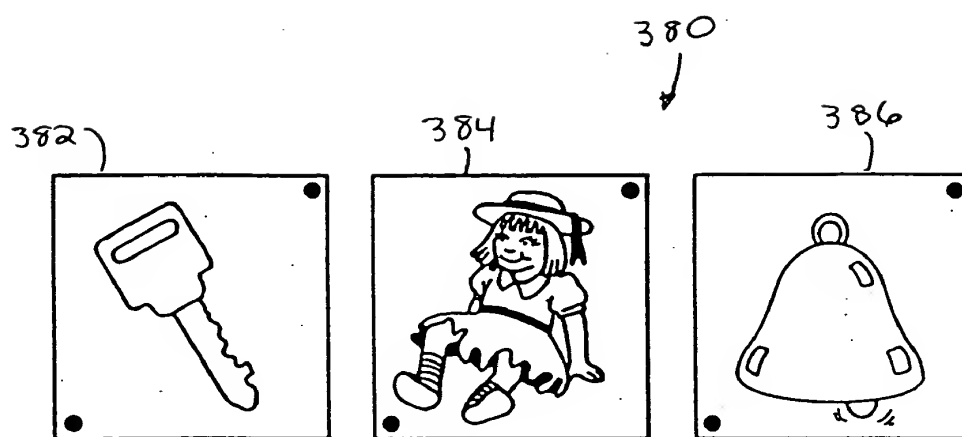


Figure 12

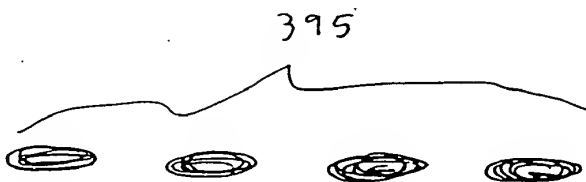


Figure 14

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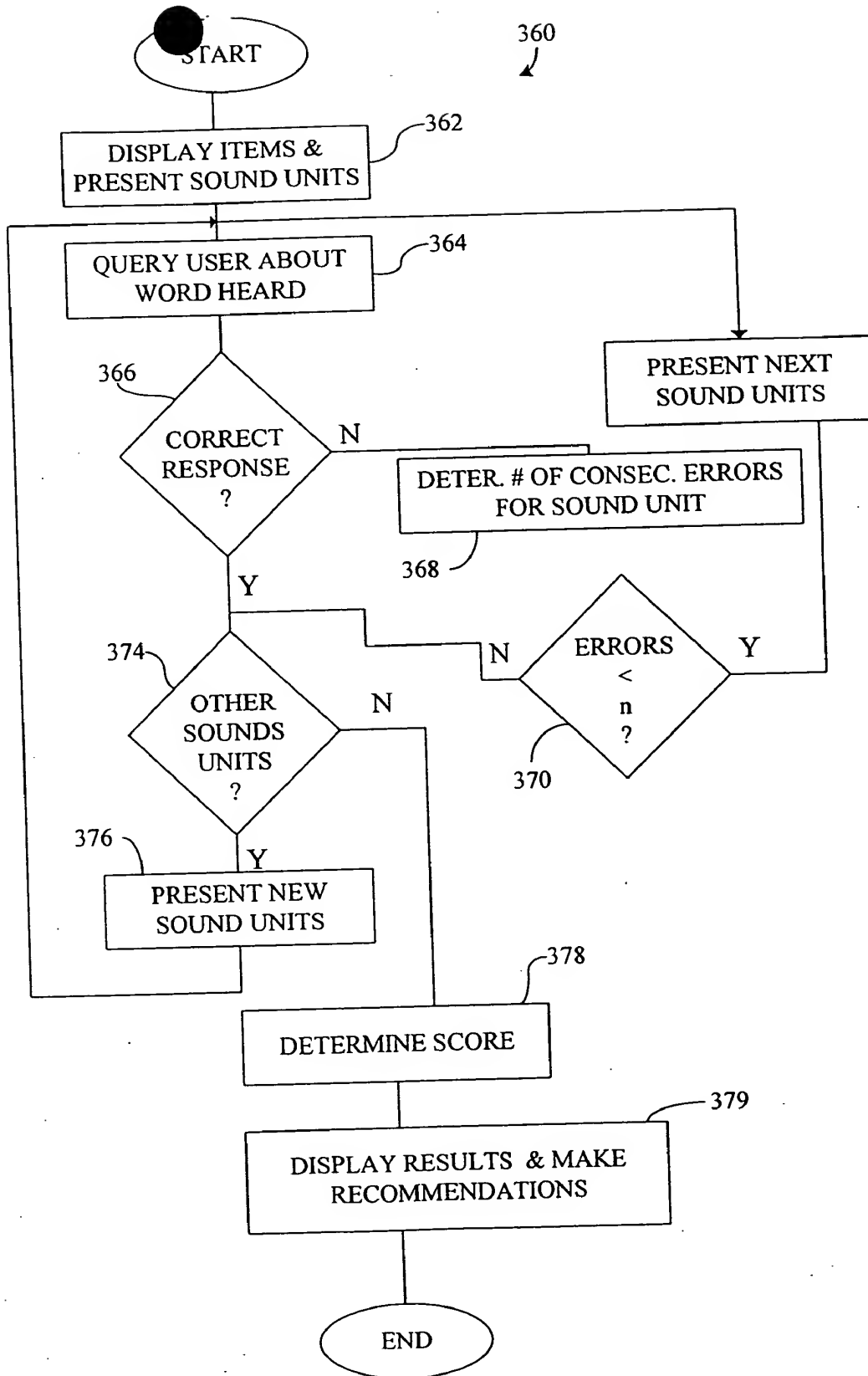


Figure 11

09912681-02401
F04240 T8921660

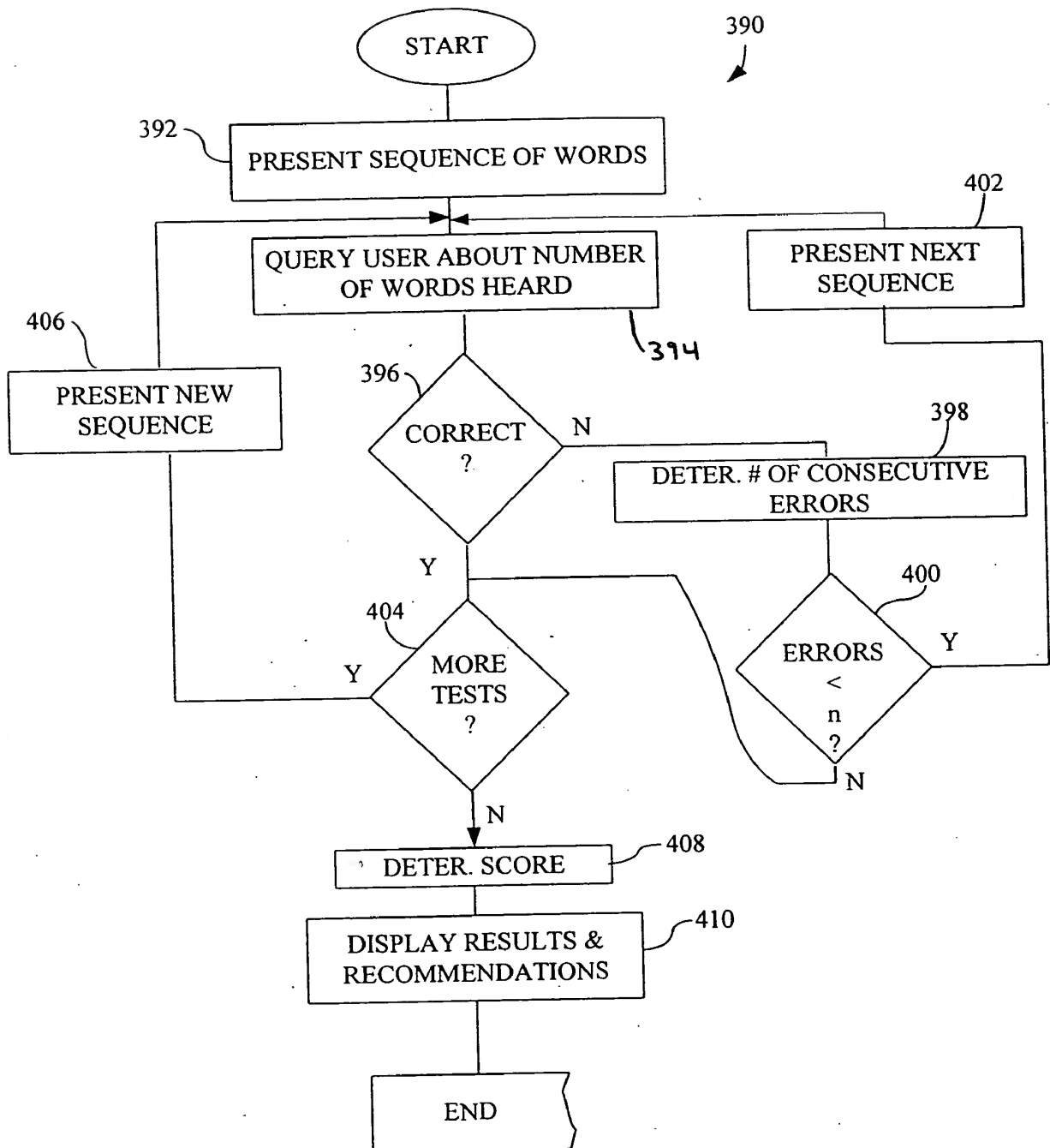


Figure 13

TO 420" 18921660

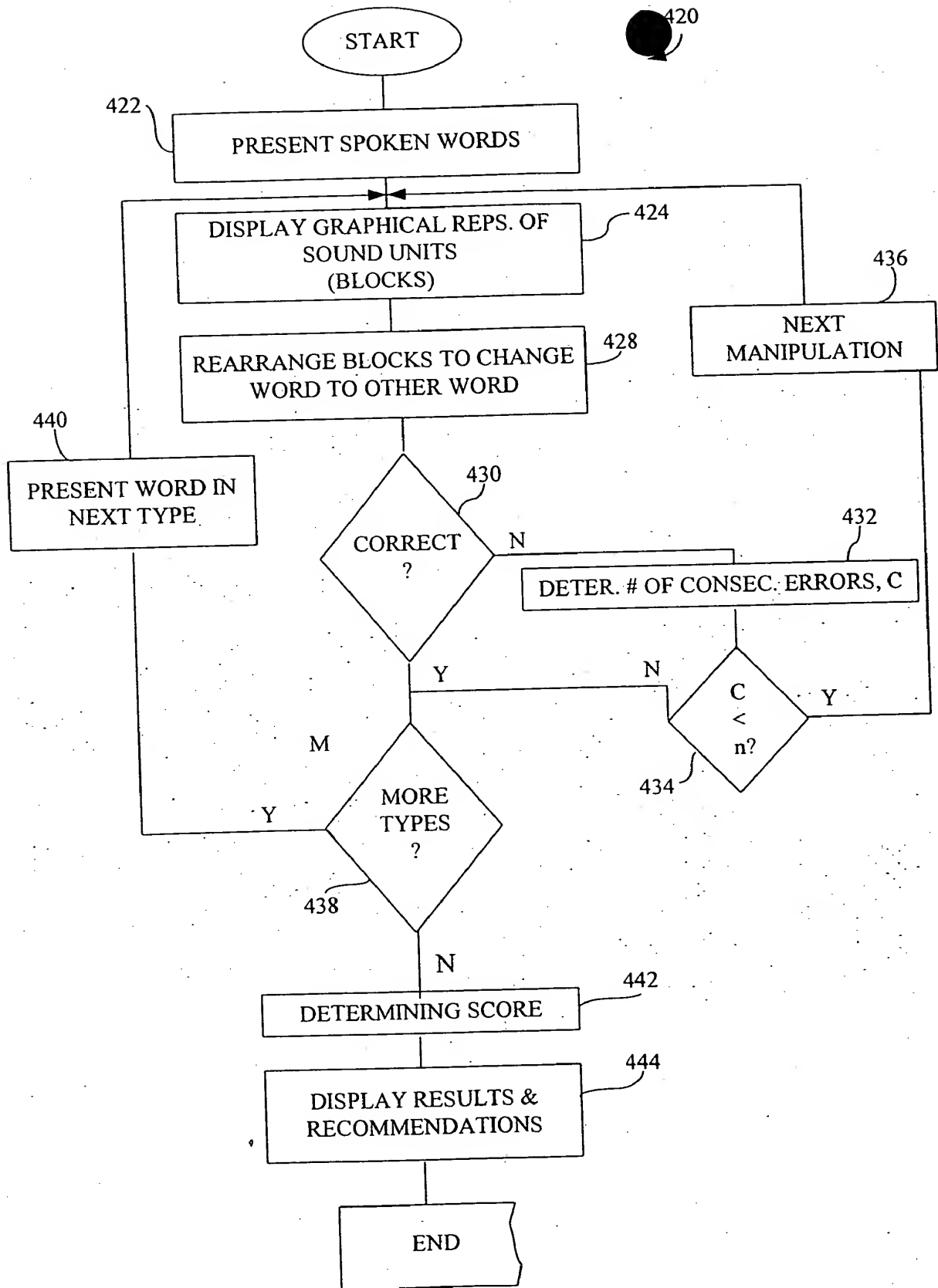
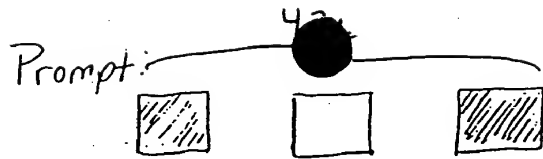


Figure 15



Bloc. Available:



Response:

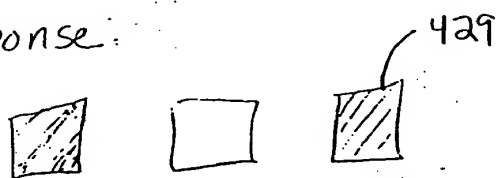


Figure 16

1	6	2
4		9
5	8	3

Figure 18



Figure 20

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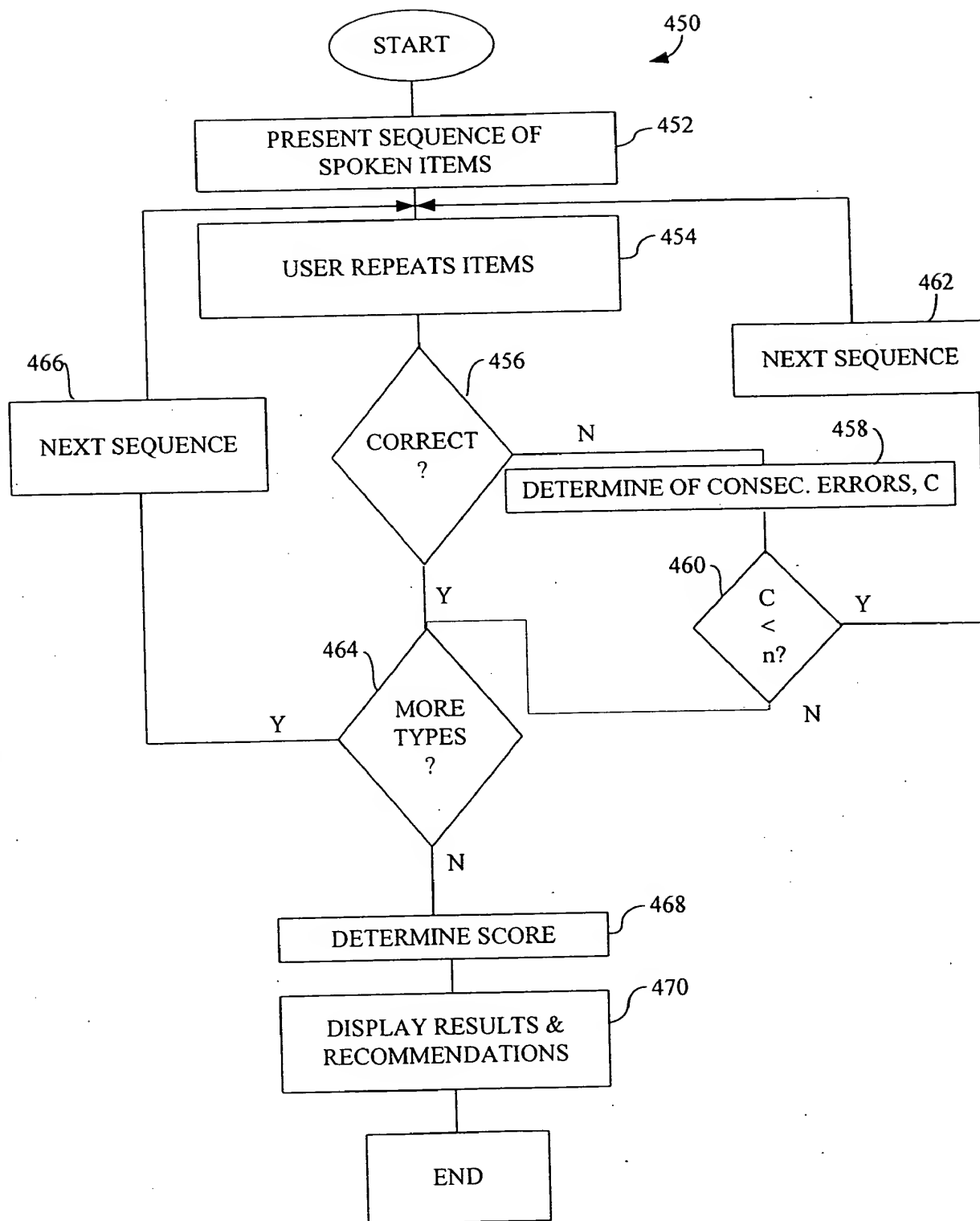


Figure 17

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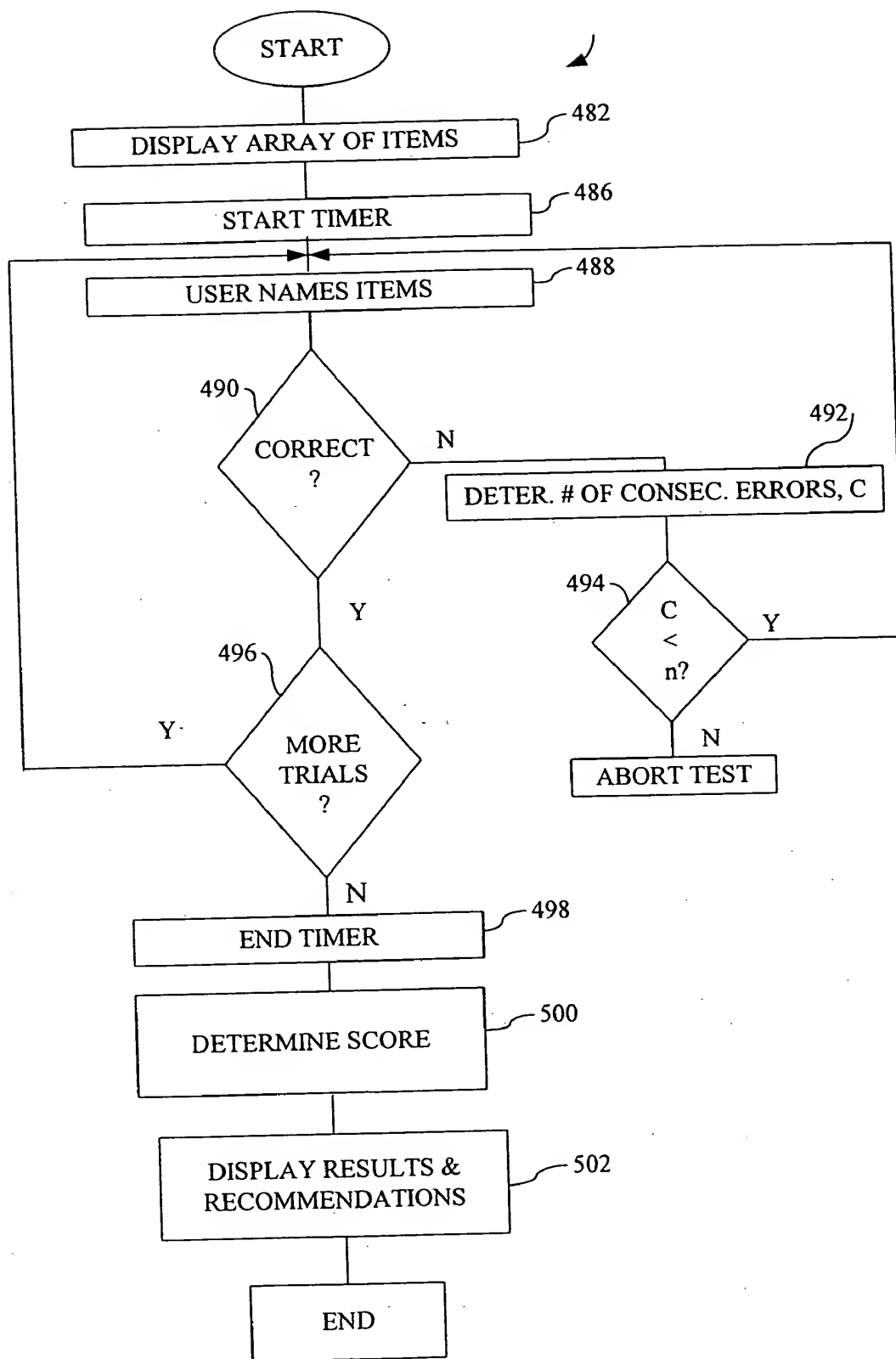


Figure 19

09912681.072401
T04220 T892T660

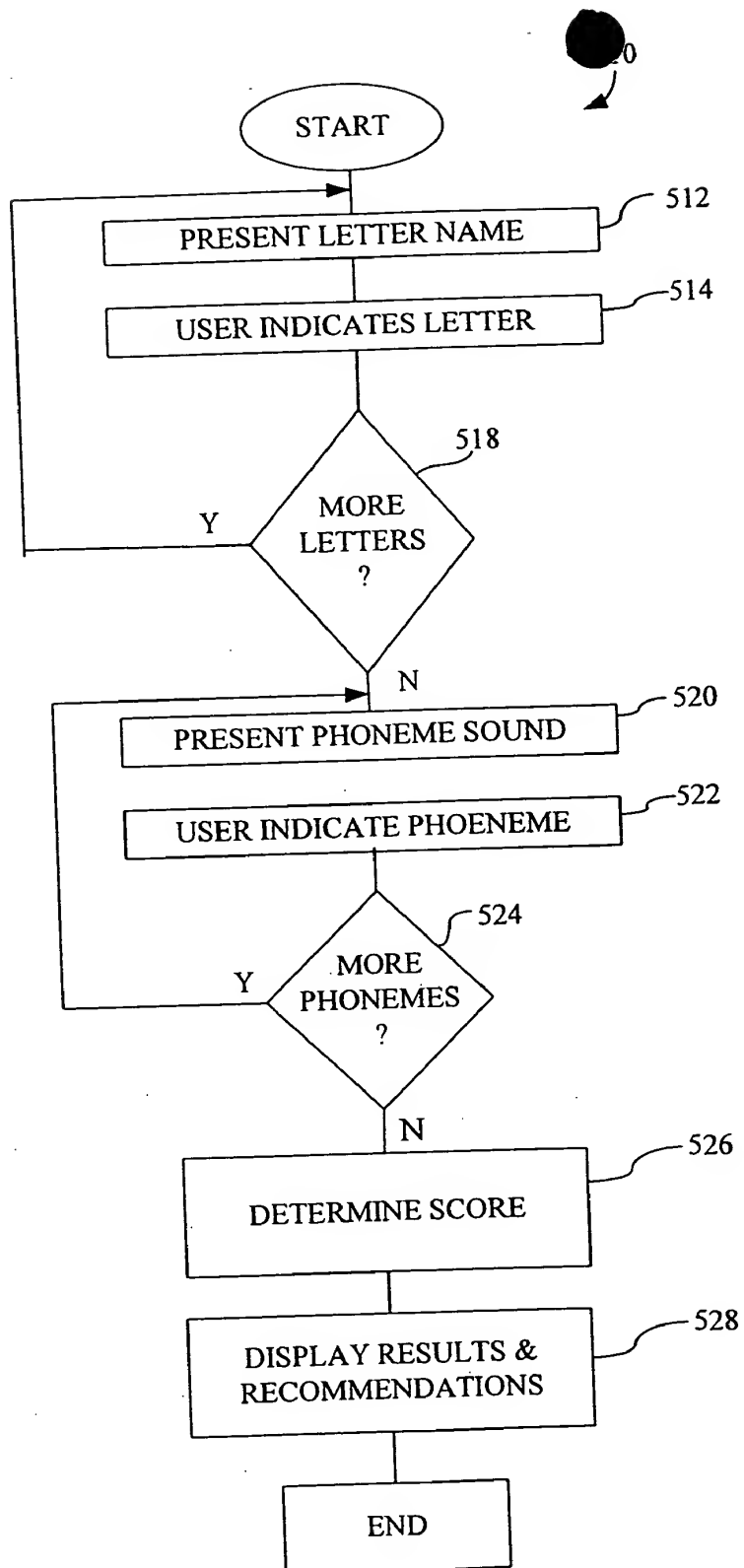


Figure 21

A B C D E F
 G H I J K L
 M N O P Q R
 S T U V W X Y Z

516

Figure 22

taf cag ⁵³³dop mib

Figure 24

Does a dog have four legs? 564

YES NO

566

Figure 26

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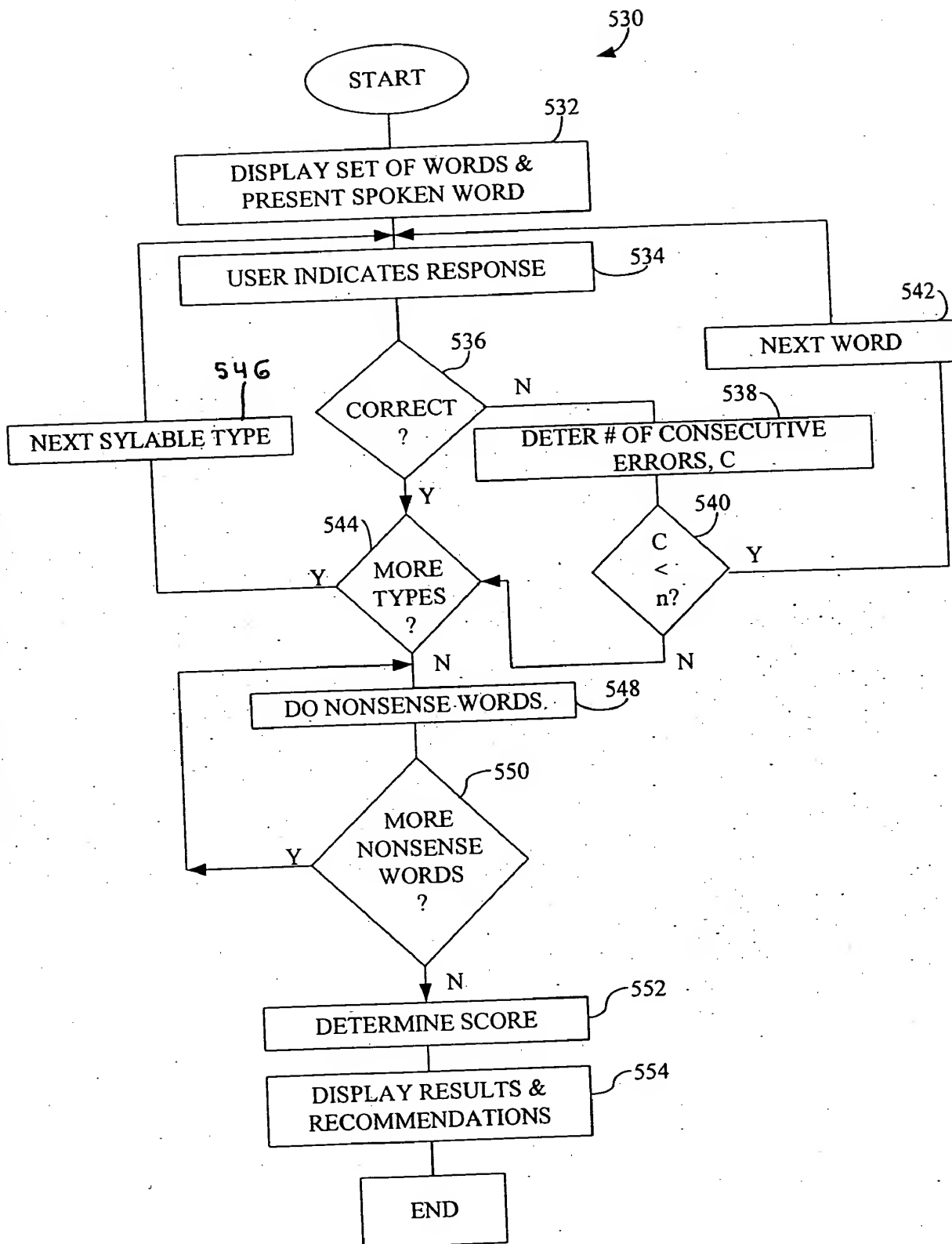


Figure 23

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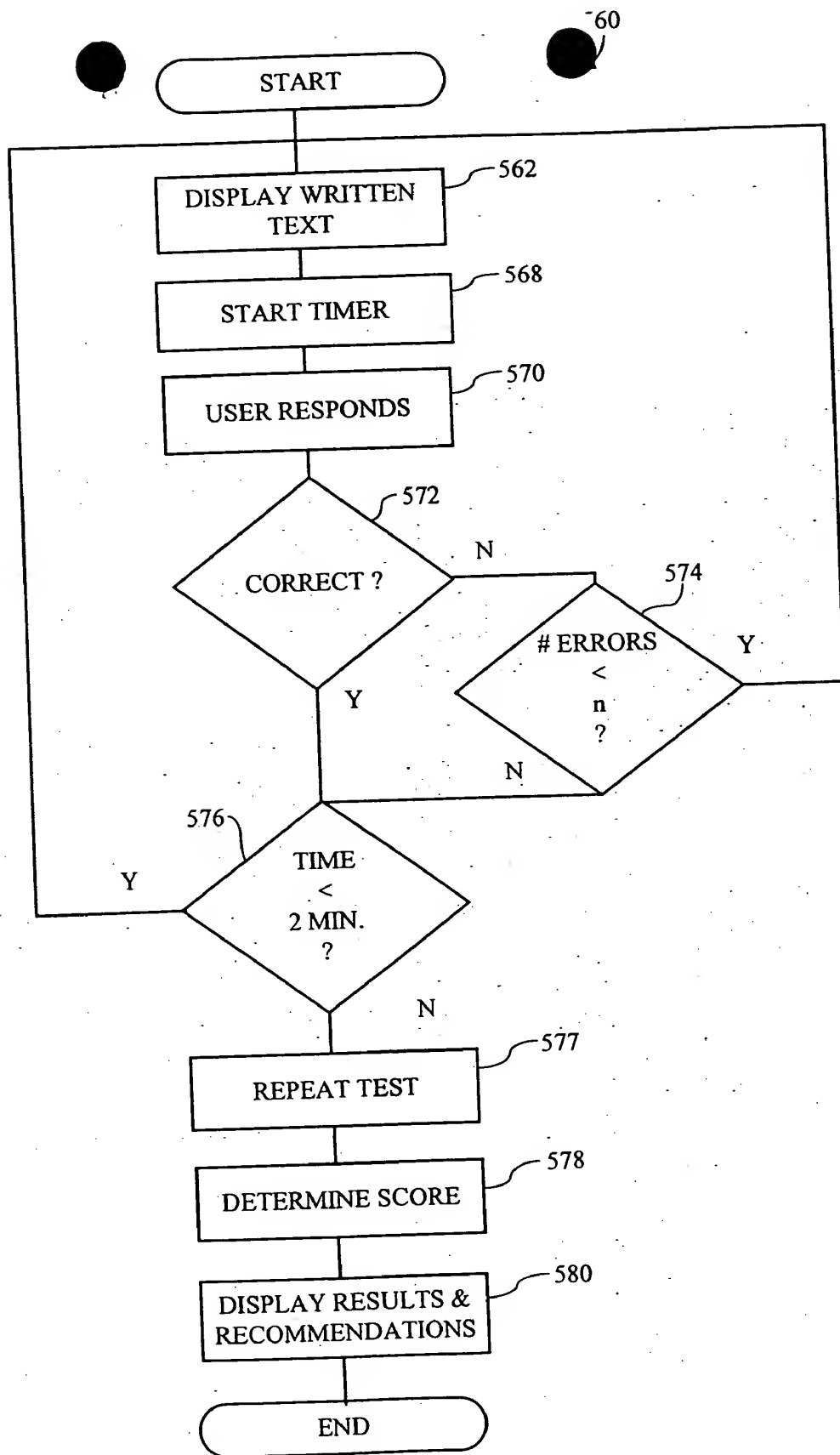


Figure 25

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T04220.T892T660

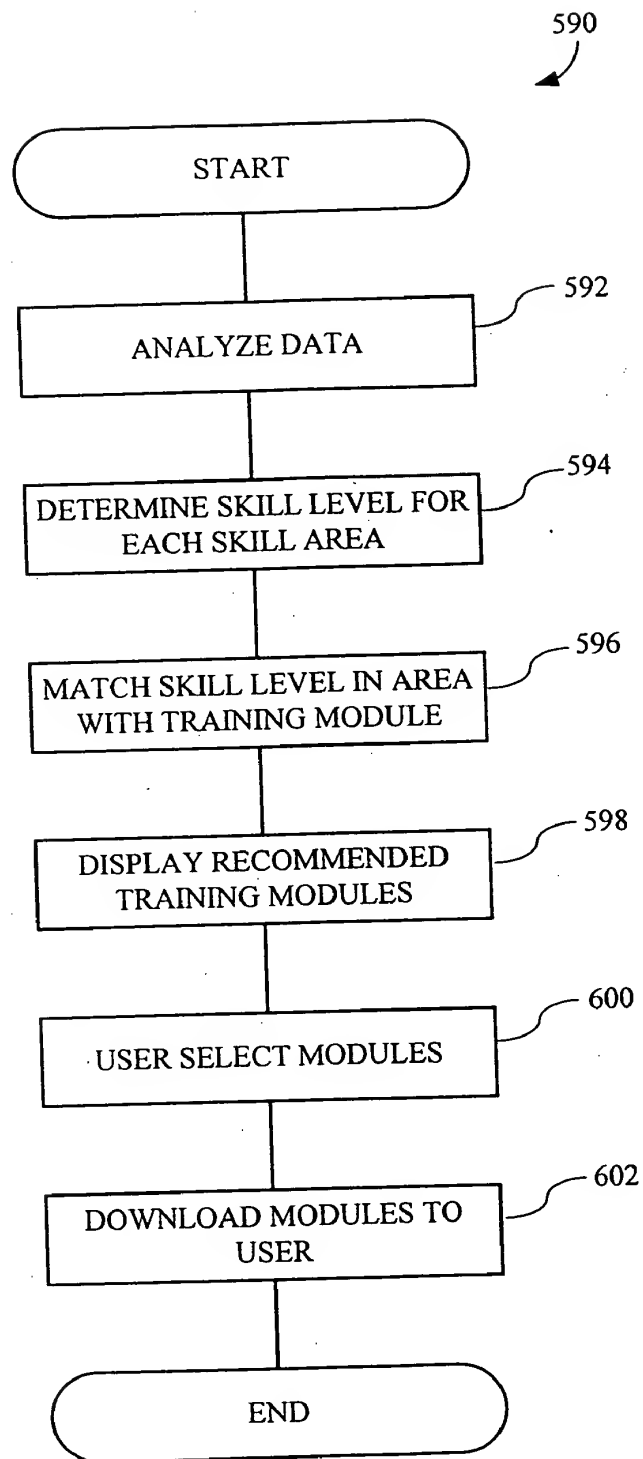


Figure 27

104220" T892T660

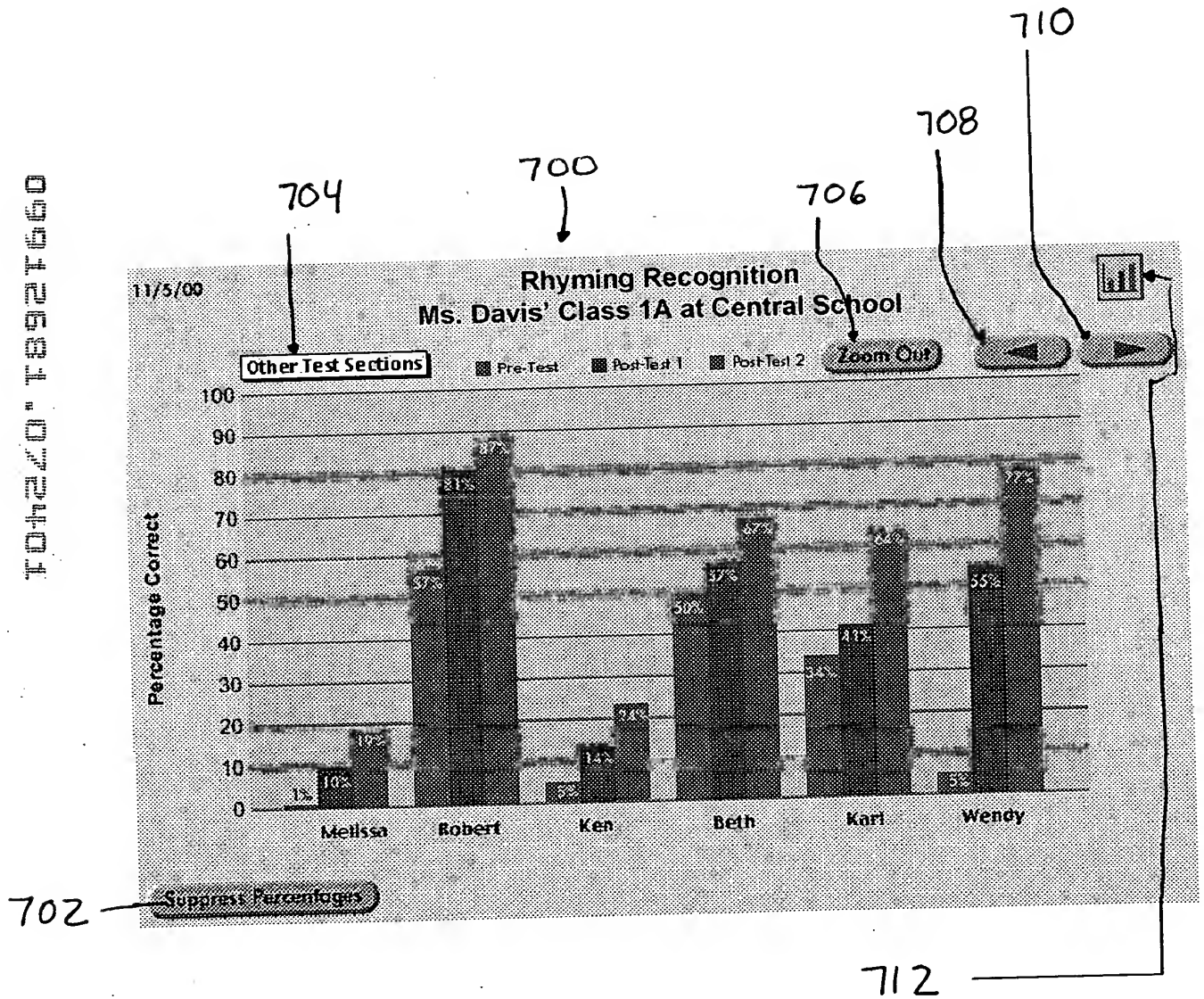


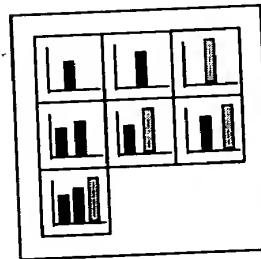
Figure 28

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Rhyme Recognition
Rhyme Generation
Beginning and Ending Sounds
Blending
Segmenting
Manipulating
Recalling in Sequential Order
Rapid Naming
Letter Names and Sound
Decoding
Fluent Reading

740

Figure 29



750

Figure 30